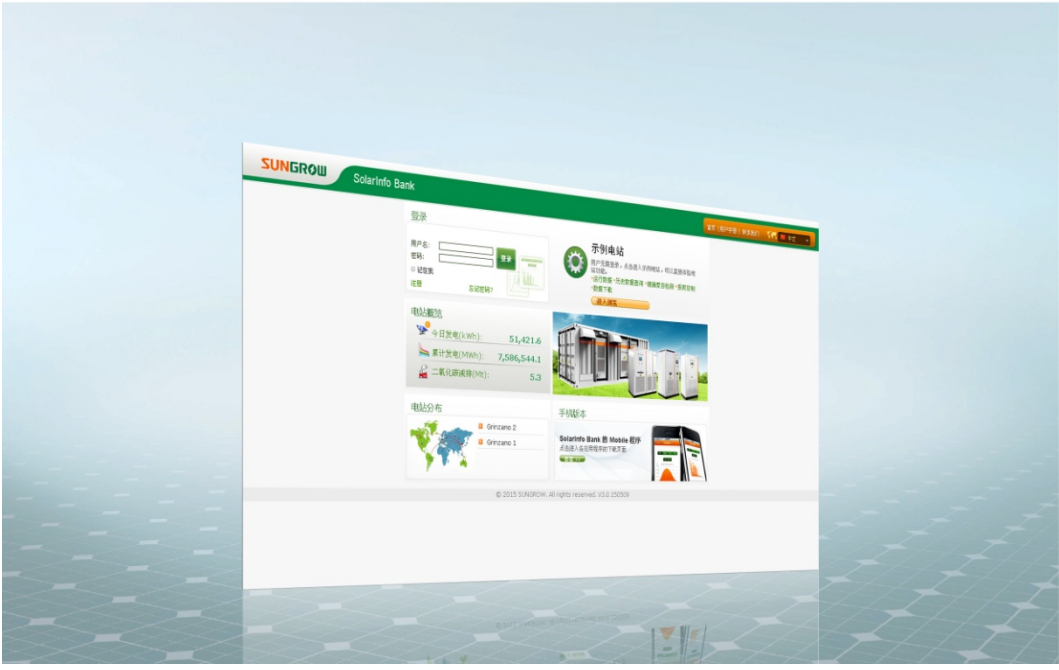

SolarInfo Bank
User Manual

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1 About This Manual

1.1 Target Readers

This manual is aimed at personnel who are responsible for SolarInfo Bank operation.

1.2 Symbols Explanation

NOTE indicates additional information, emphasized contents or tips to help you solve problems or save time.

1.3 Contents

This manual can be divided into the following chapters:

- Introduction to Functions

Mainly introduce the functions of SolarInfo Bank.

- Basic Operations

Describe how to register to become a SolarInfo Bank user, how to log in and how to log out of the interface of SolarInfo Bank.

- Home Users interface

Introduce the main interfaces and frequently used operations when the Home Users log in.

- Business Users interface

Introduce the main interfaces and frequently used operations when the BusinessUsers log in.

2 System Description

SolarInfo Bank is a remote monitoring system based on Web. Users can become SolarInfo Bank user after connecting plant to the system and registration.

After creating plant in the website, the device data source can be bound and user can:

- Real-time monitor the operation state of the plant;
- Acquire the power generation, power, CO_2 reduction, benefits and etc.;
- View the device operation info, including fault, warning and etc.;
- Evaluate the plant operation condition through various analysis graphs.

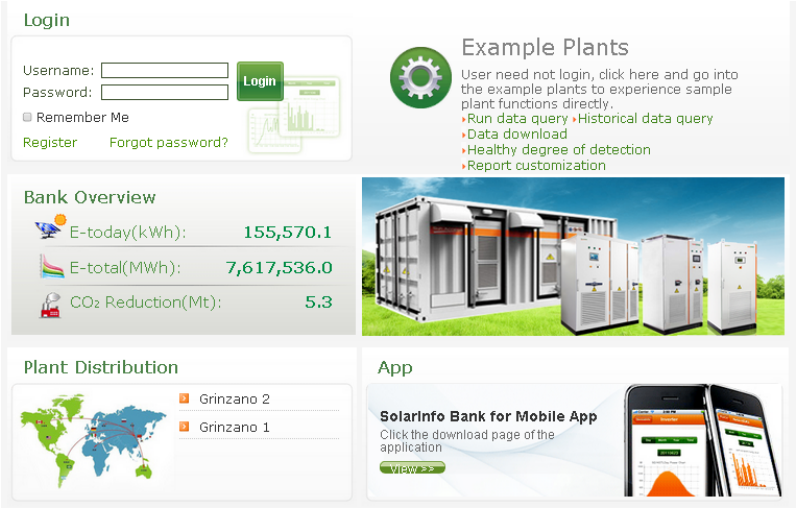
SolarInfo Bank provides a wide range of functions for user monitoring and visualization optoelectronic system, for example:

- Display today's power generation, total power generation, CO_2 reduction, tree emission reduction, automobile emission reduction, plant on-line state, etc.;
- Plant daily, monthly, annual and total report;
- Device report and other device fault information
- Device fault information confirmation;
- Plant information edition;
- Userinfo edition;
- Report configuration and reception of report through email.

3 Operations

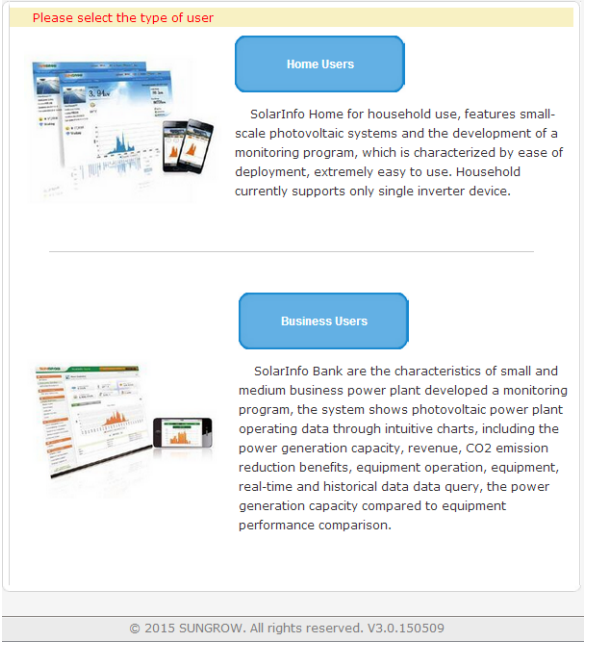
3.1 Registration

Step 1 Visit www.solarinfobank.com system and enter into the system homepage as shown below. Click Register to enter into the next step.

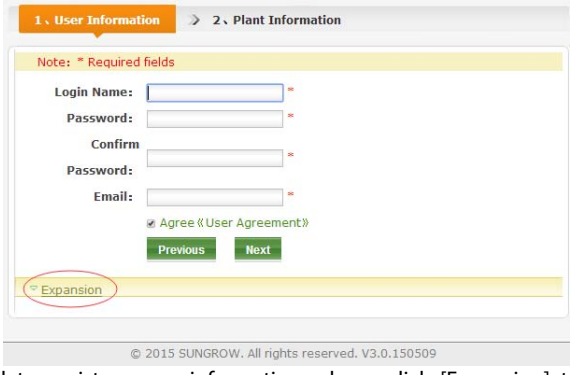


- Today Energy (MWh): system power generation today;
- Total Energy (TWh): system total power generation;
- CO_2 reduction (Mt): total power generation * CO_2 conversion rate.

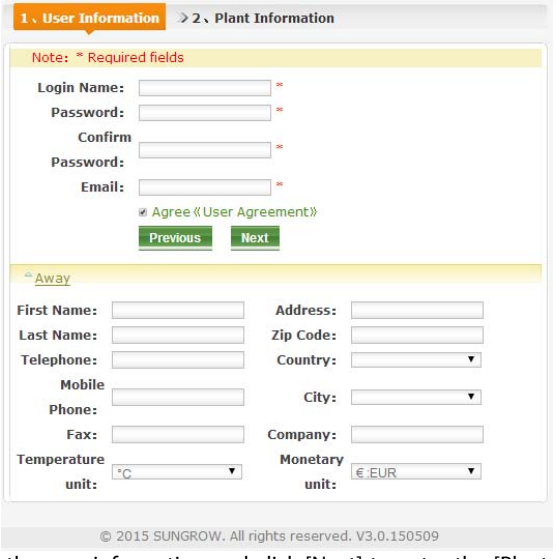
Step 2 Select the type of user. You may select [Home Users] or [Business Users] according to your need.


Please select the type of user
Home Users
SolarInfo Home for household use, features small-scale photovoltaic systems and the development of a monitoring program, which is characterized by ease of deployment, extremely easy to use. Household currently supports only single inverter device.
Business Users
SolarInfo Bank are the characteristics of small and medium business power plant developed a monitoring program, the system shows photovoltaic power plant operating data through intuitive charts, including the power generation capacity, revenue, CO2 emission reduction benefits, equipment operation, equipment, real-time and historical data data query, the power generation capacity compared to equipment performance comparison.
© 2015 SUNGROW. All rights reserved. V3.0.150509

The following interface may appear if you select [Home Users].



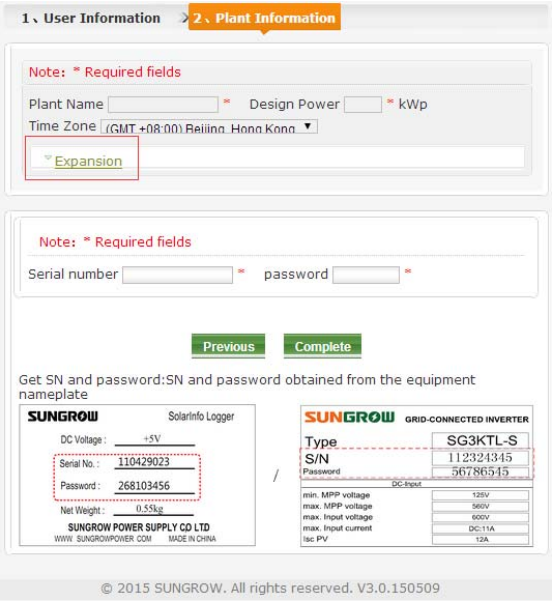
If you need to register more information, please click [Expansion] to enter the following interface.



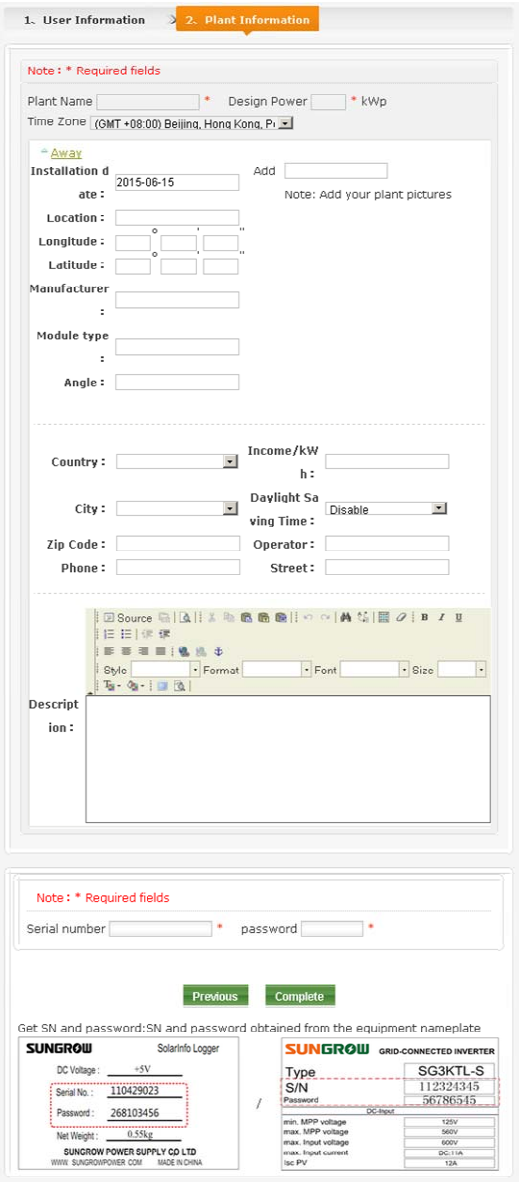
Step 3 Fill in the user information and click [Next] to enter the [Plant Information] register interface.

Information needs to input and its format is shown below:

- Plant Name: for example XXX plant
- Design Power: input the actual number according to real need
- Serial number: input the serial number that you get from the device nameplate
- Password: Input the password that you get from the device nameplate



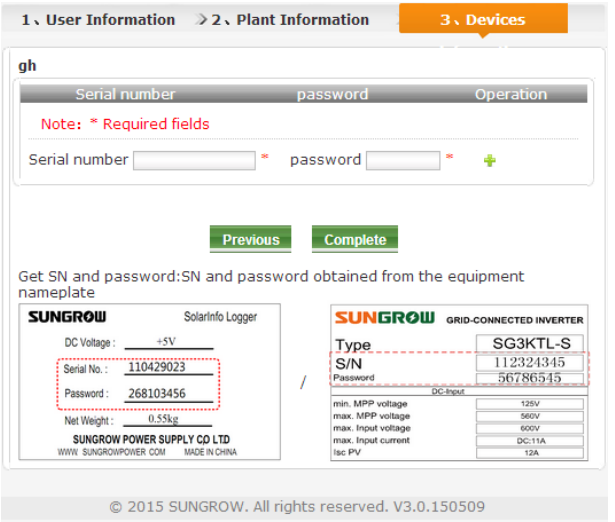
If you need to register more information, please click [Expansion] to enter the following interface.


1. User Information
2. Plant Information
Note : * Required fields
Plant Name
Design Power
kWp
Time Zone
(GMT +08:00) Beijing, Hong Kong, P
Away
Installation date :
2015-06-15
Add
Note: Add your plant pictures
Location :
Longitude :
Latitude :
Manufacturer :
Module type :
Angle :
Country :
Income/kWh :
City :
Daylight Saving Time :
Disable
Zip Code :
Operator :
Phone :
Street :
Source
Style
Format
Font
Size
Description :
Note : * Required fields
Serial number
password
Previous
Complete
Get SN and password:SN and password obtained from the equipment nameplate
SUNGROW
SolarInfo Logger
DC Voltage : +5V
Serial No. : 110429023
Password : 268103456
Net Weight : 0.55kg
SUNGROW POWER SUPPLY CO LTD
WWW.SUNGROWPOWER.COM MADE IN CHINA
SUNGROW
GRID-CONNECTED INVERTER
Type SG3KTL-S
S/N 112324345
Password 56786545
DC-Input
min. MPP voltage 125V
max. MPP voltage 560V
max. Input voltage 600V
max. Input current DC-11A
Isc PV 12A

Click [Complete] after filling all the required information to finish the [Home Users] registration process. System will automatically enter the Home page.

> The following interfaces may be different from that of your registration process because of the different selection of [User type] in step 2. Please refer to you real registration process.

Step 4 If you select [Business User] in Step 2, you may also need to fill in related information in [Devices] interface as shown below:



- Serial number: input the serial number that you get from the device nameplate
- Password: Input the password that you get from the device nameplate

Step 5 Click [Complete] after filling all the required information to finish the [Business Users] registration process.

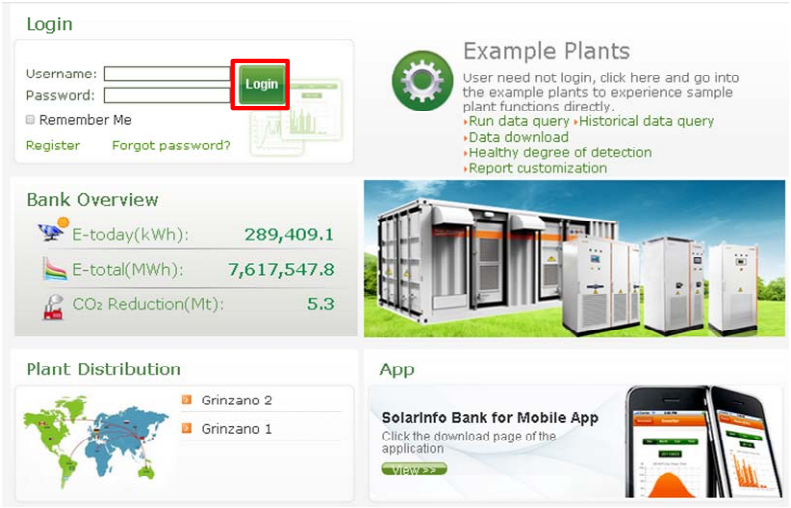
3.2 Login

3.2.1 Automatic Login after Registration

After registration, user can log in to the system automatically.

3.2.2 Log Back In

Step 1 Enter the correct username and password from the homepage.



Step 2 Click Login.

☑Login successfully.

3.3 Logout

Proceed as follows to logout of SolarInfo Bank.

Take [Home Users] for example; you can click the [Logout] button from any interface to logout of the software.

4 Interface Description

4.1 Main Interface Description

You can enter the home users main interface by either of the following methods:

- Register as [Home Users]. System automatically enters the main interface of the Home Users;
- Log in using the user name and password you registered as home user.

The following interface will appear after login.

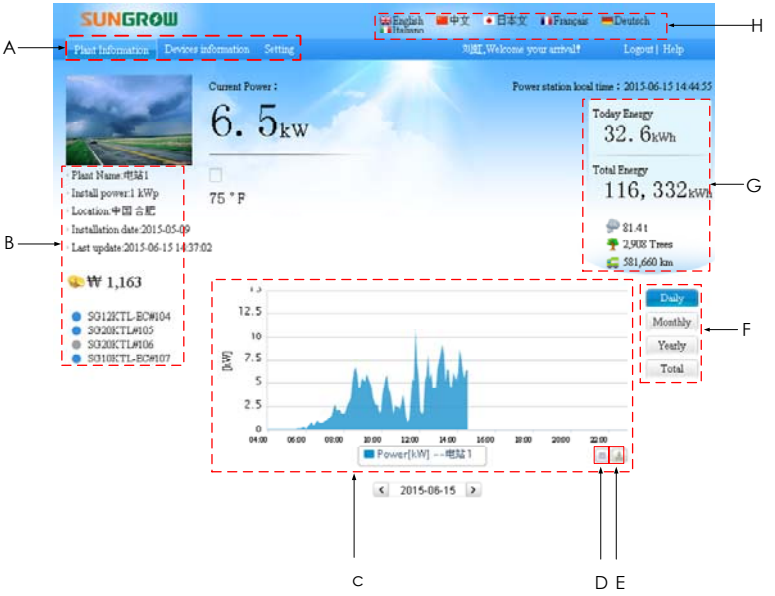


Fig. 4-1 Main interface

No.	Description
A	Navigation bar: Plant information, device information and setting.
B	Plant environment, location information, operation state and benefits, etc.
C	Plant chart information

No.	Description
D	Full-screen view of the chart information, select day, month, year and total to view the full-screen information
E	Export the chart information in excel, CSV and PDF format or view data
F	Chart condition selection
G	Power generation display
H	Language switch menu, system support language: English, Chinese, Japanese, French, German, and Italian.

4.2 Plant Information

The default interface after successful login is the Plant Information interface. The following information can be viewed in this interface: plant environment, plant location; energy histogram; energy at present, total energy and etc. For details, please refer to 5 Plant Information.

4.3 Devices Information

4.3.1 Checking Devices Chart

Check the device chart information by clicking the Device Information in the navigation bar.

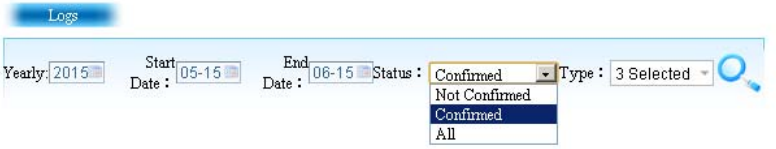
– Daily: power and solar intensity comparison of the inverter today.
– Monthly: inverter energy histogram at each day in a month
– Yearly: inverter energy histogram at each month of the year.
– Total: inverter energy histogram during the past several years.

4.3.2 Logs Checking/Confirmation

Device logs record the device fault information. User can check the logs.

User can check the logs by year, start date, end date, status and type.

- Log status includes: Confirmed and Not Confirmed. You can either select Confirmed or All to confirm the log status.



- Log type includes: Info, Warning, Fault, Error.

4.4 Setting

4.4.1 Checking/Changing User Information

After login, there are Plant Information, Devices Information and Setting bars on the top of the webpage. Click Setting and change the related information.

Step 1 Select User Information to check/modify user information.

Step 2 Click Save after modifying related information.

☑User information upgrade successfully.

4.4.2 Checking/Changing Plant Information

Proceed as follows to change the system information after successfully login.

Step 1 Click Setting from the homepage and then click Plant information in the left navigation bar.

Step 2 Check/modify related information in the Plant Information interface.

Step 3 Click Save to finish information change.

☑Plant information upgrade successfully.

4.4.3 Report Configuration

There are five report types:

- Daily info report
- 7 day report
- Monthly info report
- Annual info report
- Total info report

The report sending frequency is as follows:

- Daily info report: every day;
- 7 day report: every week;
- Monthly info report: every month;
- Annual info report: every year;
- Total info report: every year;

User can set frequency according to real need.

Tab. 4-1 Definition of report sending time

Report name	Sending time
Daily report	Circulation send and send at the fixed time. • Circulation send: sending interval can be set; default interval is 4 hours, adjustable. • Send at the fixed time: send at 20:00 o'clock every day by default, adjustable.
7 days report	Send at the fixed time. Send at 04:00 o'clock every Monday. Adjustable.
Monthly report	Send at the fixed time. Send at 04:00 o'clock on the first day of every month. Adjustable.
Annual report	Send at the fixed time. Send at 04:00 o'clock on Jan, 1st of every year. Adjustable.
Total report	Send at the fixed time. Send at 04:00 o'clock on Jan, 1st of every year. Adjustable.

Create Report

You can create report for a single plant or all plants.

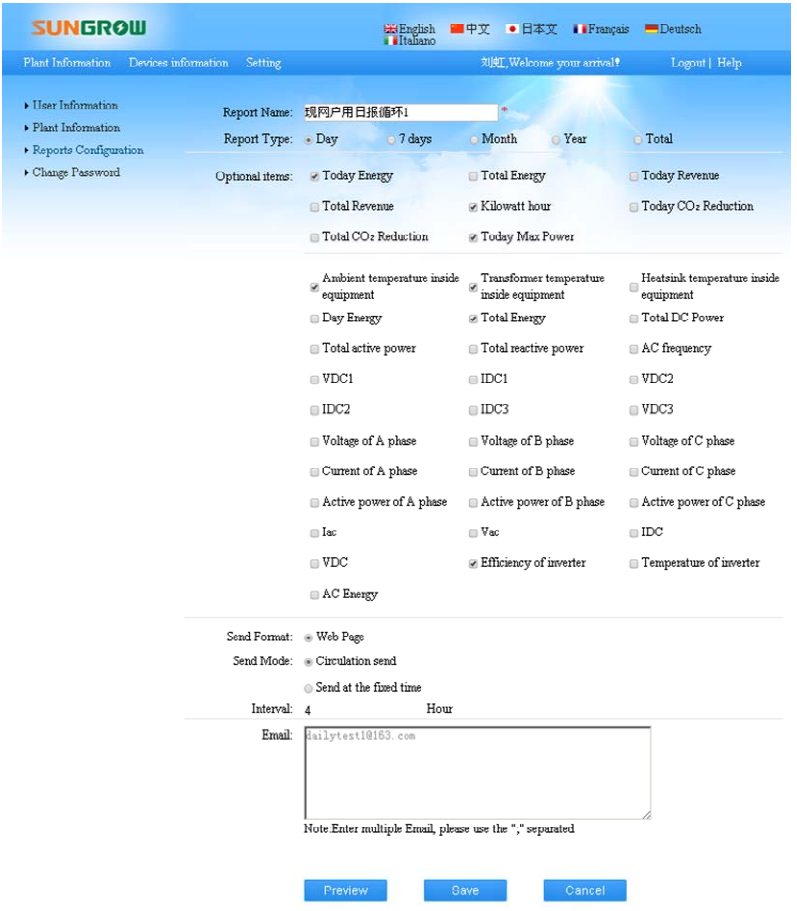
- Reports of all plants: list data of all plants.

- Report of a single plant: list data of the single plant.

Step 1 Click Setting from the homepage.

Step 2 Click Reports Configuration in the left navigation bar and the following interface will appear.

Step 3 Click Create Report to open the report creating interface as shown below:


SUNGROW
English
Italiano
中文
日本文
Français
Deutsch
Plant Information
Devices information
Setting
刘虹,Welcome your arrival!
Logout | Help
User Information
Plant Information
Reports Configuration
Change Password
Report Name:
现网户用日报循环1
Report Type:
Day
7 days
Month
Year
Total
Optional items:
Today Energy
Total Energy
Today Revenue
Total Revenue
Kilowatt hour
Today CO2 Reduction
Total CO2 Reduction
Today Max Power
Ambient temperature inside equipment
Transformer temperature inside equipment
Heatsink temperature inside equipment
Day Energy
Total Energy
Total DC Power
Total active power
Total reactive power
AC frequency
VDC1
IDC1
VDC2
IDC2
IDC3
VDC3
Voltage of A phase
Voltage of B phase
Voltage of C phase
Current of A phase
Current of B phase
Current of C phase
Active power of A phase
Active power of B phase
Active power of C phase
Iac
Vac
IDC
VDC
Efficiency of inverter
Temperature of inverter
AC Energy
Send Format:
Web Page
Send Mode:
Circulation send
Send at the fixed time
Interval:
4
Hour
Email:
dailytest1@163.com
Note:Enter multiple Email, please use the ";" separated
Preview
Save
Cancel

Tab. 4-2 Report explanations

Item	Explanation
Report type	You can choose Day, 7 days, Month, Year and Total
Optional items	Select items which need to list on the report
Send format	Choose the send format as Web page.
Send mode	Report send mode includes: • Circulation send • Send at the fixed time Daily report includes circulation send and send at the fixed time. There is only send at the fixed time for other report type.
Time	Set the report send time
E-mail	E-mail address where the report is sent

Step 4 Click Save.

☑System returns to the report list interface automatically after the report is successfully configured.

Step 5 After creating the report, click Preview to preview the reports.

Viewing Report

Click View button to check the report information of the device selected from the report list interface.

Editing Report

Step 1 Click Edit from the Reports Configuration interface.

Step 2 Open the Edit interface as shown below:

Step 3 Modify the running information and click Save.

☑System returns to the report list interface automatically after the report is successfully configured.

Deleting Report

Step 1 Click Delete from the Reports Configuration interface.

Step 2 The "Are you sure you want to delete?"prompt box will pop out. Click OK to confirm delete operation.

☑The report is deleted successfully.

Download Report

Click Download from the Reports Configuration interface.

5 Plant Information

5.1 Statistics Information

Fig. 5-1 Plant information

Item	Definition
Today energy	Total energy of all devices today.
Total energy	Total energy of all devices in this plant
Ambient temperature °C	Average temperature of environment monitoring (EM) device. If there is no EM device, the ambient temperature is acquired from Yahoo! Weather according to the country and city the plant is located. If there is no country or city information, no ambient temperature is displayed.
Benefits	Total energy*benefits conversion rate (conversion rate is set from the User Information)

Item	Definition
CO_2 reduction	Total energy*CO_2 reduction coefficient
Trees	Total energy*trees coefficient
Automobile emission reduction	Total energy *automobile emission reduction coefficient
Power station local time	Local time where the power station is located
Current power	Present plant power

5.2 Energy Chart-Information

- Daily power&daily solar intensity chart: display the power and solar intensity every 5 minutes in a day

- Monthly energy chart: power generation histogram every day in a month.
- Yearly energy chart: power generation histogram every month in a year
- Total energy chart: power generation histogram every year

5.3 Device List and Related Information

Display the device lists and working status, today energy and present power of each device.

Status:

Working

Stop

6 Business User Interface

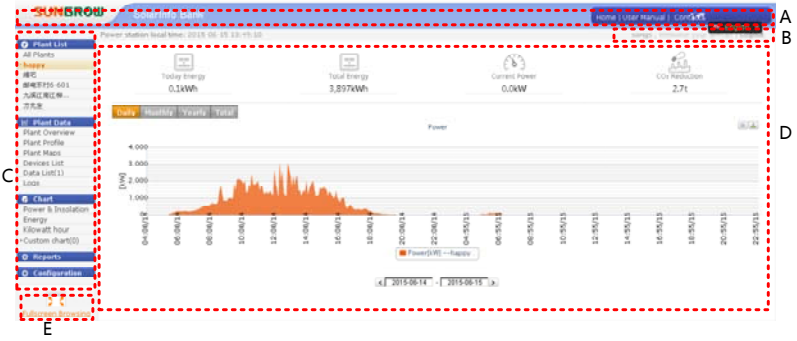
There are two kinds of business users interfaces according to the plant types user selected for Plant list: interface of a single plant and interface of AllPlants.

6.1 Interface of A Single Plant

6.1.1 Main Interface of A Single Plant

Select one specific plant from the Plant list column to enter the interface of a single plant.

The main interface of a single plant is shown in the following figure.

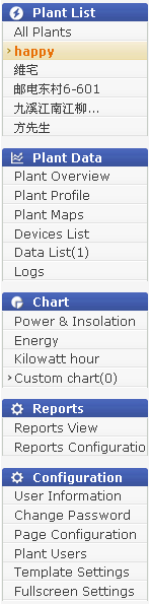


Tab. 6-1 Description of the main interface of a single plant

No.	Description
A	Title bar, including SolarInfo Bank name, Home, User Manual, Contact and language switch (supporting Chinese, Japanese, French, Italian and German)
B	Present user and logout
C	Navigation bar: Plant List, Plant Data, Chart, Report and Configuration
D	Displayed information: Today Energy, Total Energy, Current Power, CO_2 Reduction and Daily, Monthly, Yearly, Total energy chart
E	Full screen check tool; view in full screen by clicking this button

6.1.2 Introduction to the Navigation Bar

The navigation bar when you select a single plant is on the left area of the main interface as shown below (for example: plant names "happy" is selected):



The interfaces of items in the navigation bar are shown in the following table:

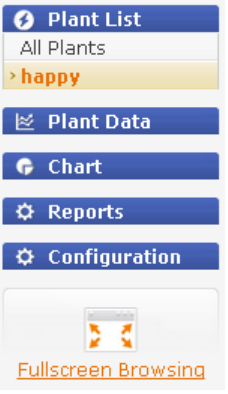
Navigation bar	Sub-interface	Reference Chapter
Plant List	All plants	6.2 All Plants Interface
	Single plant (for example "happy" in the above picture)	6.1 Interface of A Single Plant
Plant Data	Plant Overview	6.1.7 Plant Data
	Plant Profile	
	Plant Maps	
	Device List	
	Data List (1)	
	logs	
Chart	Power & Insolation	6.1.8 Chart
	Energy	
	Kilowatt hour	
	Custom chart (0)	
Reports	Reports View	6.1.9 Reports
	Reports Configuration	
Configuration	User Information	6.1.10 Configuration

Navigation bar	Sub-interface	Reference Chapter
	Change Password	
	Page Configuration	
	Plant User	
	Template Settings	
	Fullscreen Settings	

6.1.3 Fullscreen Browsing (Optional)

User should specify in your order if you need this optional fullscreen browsing function.

The Fullscreen Browsing is on the bottom of the navigation bar as shown below:



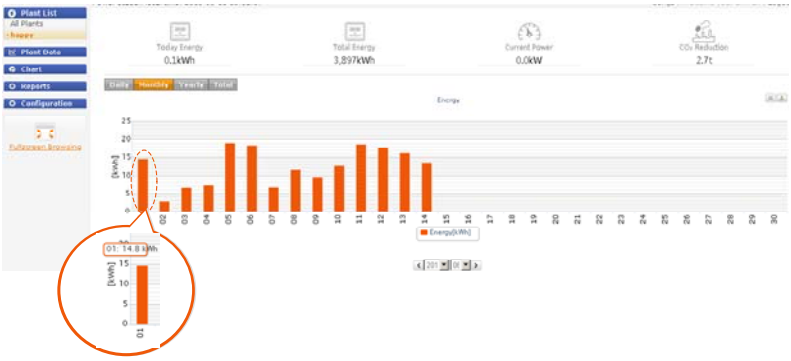
Click Fullscreen Browsing to view the corresponding interfaces in full screen.

To exit from the full screen browsing interface, please proceed as follows:

- Click the button on the lower right corner from the fullscreen interface; or
- Press the "ESC" button from the keyboard

6.1.4 Checking Chart Values

Move the cursor to either chart to view the specific value. Take the energy of January for example; move the cursor to the histogram of January and the energy generated is 14.8kWh.



6.1.5 Fullscreen Tool

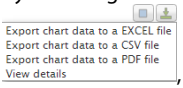
To view clearly the energy generation information of the plant, you may click the icon 1 in the following figure to view the information in full screen.

For the exit method, please refer to 6.1.3 Fullscreen Browsing (Optional).

6.1.6 Downloading Report

You may also download the energy generation information of the plant by clicking the icon 2 in the following figure.

By clicking the download button, there will appear a drop-down list



, select the format you need (for example, EXCEL, CSV, or PDF) to download theinformation.

For more detailed information, you can select “View details” to view the following information.

6.1.7 Plant Data

The Plant Data column includes the following sub-items: plant overview, plant profile, plant maps, device list, data list and logs.

- Plant overview interface

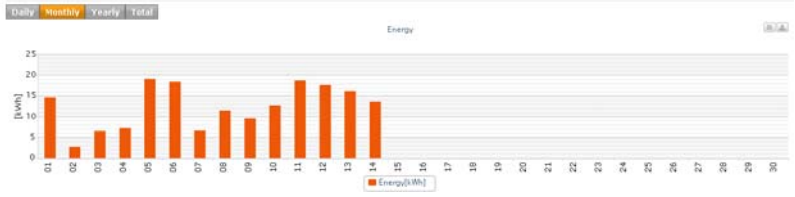
Plant overview interface displays the today energy, total energy, current power and CO_2 reduction information.

The energyinformation will also be displayed in forms of graphs. Select the start date and end date on the bottom of the graph, the energy information within the selected time duration will be displayed in graph.

Click the buttons on top of the graph to view the energy generated by daily, month, year and the total energy.

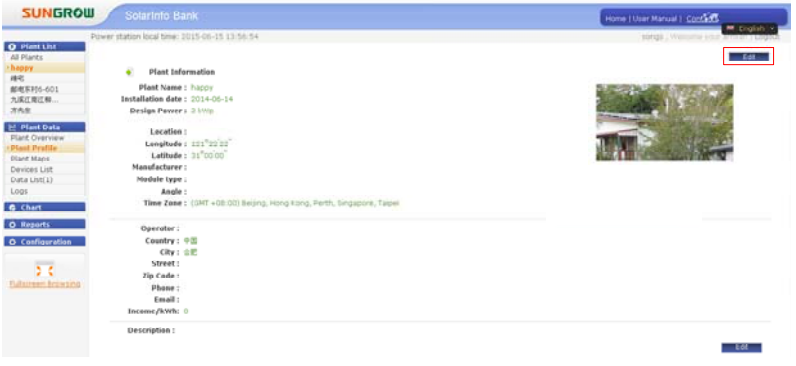
- Daily: display the energy information in every 2 hours in the present day (if user is authorized with the modification right, user can then set the time duration by clicking [Configuration]-[FullScrren Settings] to change the “day chart interval”).
- Monthly: display the energy information of each day within the present month.

- Yearly: display the energy information of each month within the present year.
- Total: display the energy information of each year since the plant starts operating.



- Plant Profileinterface

Click [Plant Profile] from the [Plant Data] column, the following interface with basic information of the present plant will appear as shown below:



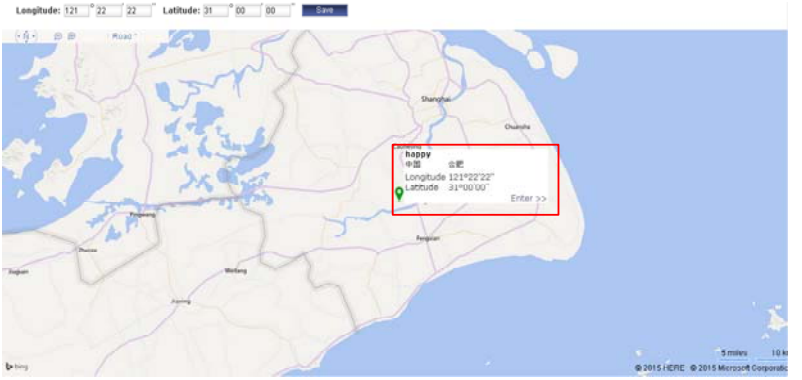
- Plant Maps Interface
  - Edit the location information

    Click Maps from the [Plant Data] column, the following interface with the plant location information will appear. If you need to change the location information, please input the corresponding “Longitude” and “Latitude” value and then click [Save].
  - View the location information

Click the icon of the plant in the map to view the specificlongitude and latitude information.

  - View plant operating information

Click the icon of the plant in the map and select Enter to view the plant operating information.



- Device List

All devices in the plant (communication devices, inverters, EM devices and combiner boxes) are displayed in this interface.

The actual interface may be different from the interfaces in this section since the devices in the plant are different. Please refer to the actual interface.

Explanation of icons in the Device List information display area:

Icon	Explanation
Normal	Green LED indicates the device is in normal operation state and displays the device power, today energy, and total energy. If you need to delete this device, click the "Delete" button on the right and the information of this device will not be displayed. **Notice: please make sure you want to delete the device information before performing this operation.**
Device faults	Red LED indicates the device is in fault state and the fault types will be displayed.Please refer to the abovementioned method to delete the device fault information if necessary.
Offline(No data is more than three hour)	Grey LED indicates the device is offline, i.e. there is no data for more than three hours

– Communication device interface

The communication device interface is shown in the following figure.

The displayed information in this interface may be different since the actual devices in the plant may be different. Please refer to the actual interface.

Add communication device

If you need to add device, please click the [Add] button as shown in the following figure.

When the following interface appears, fill in the device serial number, password and then click [Save].

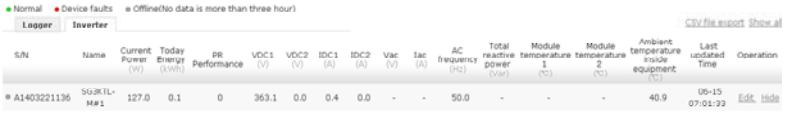
Export the device operating files

If you need to export the device operating information in CSV format, please click the [CSV file export] button.

You can save the exported file for checking.

– Inverter Interface

The inverter interface is shown in the following picture. In this interface, you can edit the inverter information, hide/show the inverter information and export the inverter information.



The displayed information in this interface may be different since the actual devices in the plant may be different. Please refer to the actual interface.

Edit inverter information

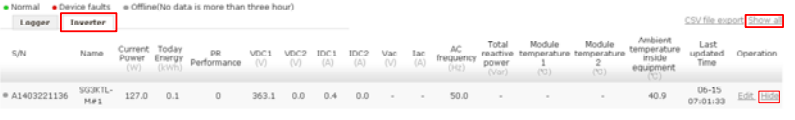
Click the [Edit] button in the following interface to edit the inverter information.

Hide/Show all inverter information

If you do not need the information of the inverter, you can click the [Hide] button to hide the information.

The information will not be displayed after this operation. To check the hidden information, you can click [Show] button.

If there are many hidden inverters, please click [Show all].



Export inverter operating file

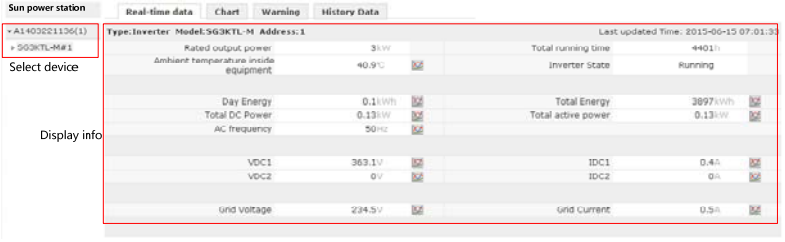
After clicking the [Inverter] button, click the [Export CSV file] button to export the inverter files to local.

- Data List

The Data List interface includes: [Real time data], [Chart], [Warning] and [History data].

Select one device from the left area, for example "SG4KTL-M#1" and then you can view the related running information of this inverter by clicking among the "Real-time data", "Chart", "Warning" and "History Data" buttons.

– Real-time data



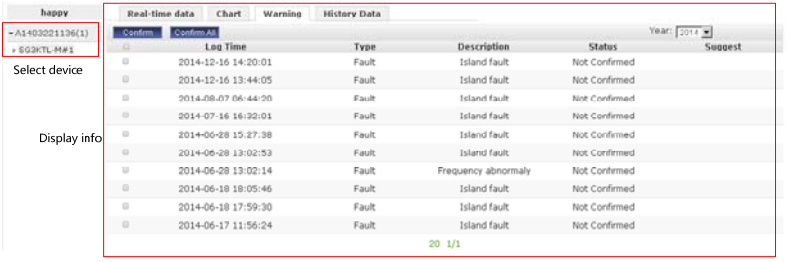
– Chart

Click [Daily], [Daily/kWp], [Power&Insolation], [Monthly], [Yearly] and [Total] to view thecorresponding daily active power, daily energy generated, power and insolation, monthly energy generated, yearly energy generated and total energy generated.

– Warning

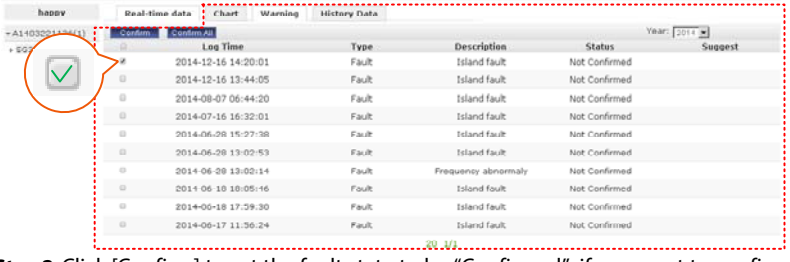
Only when the device is in fault running state can this interface appear.

In this interface, you can check the device fault type, simple fault description and the present fault state (Confirmed, Not Confirmed) as shown below:



If you do not perform any operation to the fault, the fault state will be “Not Confirm”. If you have performed operation to this fault, the fault state will be “Confirmed”. Proceed as follows to set the fault state:

Step 1 Click the check box in front of a fault;


Real-time data
Chart
Warning
History Data
Confirm
Confirm All
Year: 2014
Log Time
Type
Description
Status
Suggest
2014-12-16 14:20:01 Fault Island fault Not Confirmed
2014-12-16 13:44:05 Fault Island fault Not Confirmed
2014-08-07 06:44:20 Fault Island fault Not Confirmed
2014-07-16 16:32:01 Fault Island fault Not Confirmed
2014-06-28 15:27:38 Fault Island fault Not Confirmed
2014-06-28 13:02:53 Fault Island fault Not Confirmed
2014-06-28 13:02:14 Fault Frequency abnormaly Not Confirmed
2014-06-18 18:05:46 Fault Island fault Not Confirmed
2014-06-18 17:59:30 Fault Island fault Not Confirmed
2014-06-17 11:56:24 Fault Island fault Not Confirmed

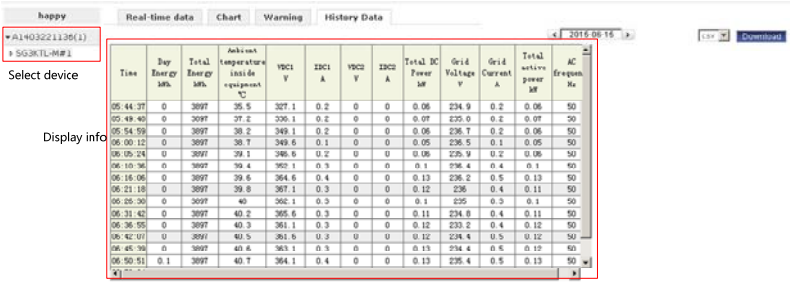
Step 2 Click [Confirm] to set the fault state to be “Confirmed”; if you want to confirm all fault state, click [Confirm All].

– History data

You can view the device history information in this interface as shown below:

Select the date to be viewed in the front of the interface and the information of the selected date will appear.

Select the format you need from the drop-down box, i.e. csv, xlsx and pdf and then click the [Download] button to save the file.



- Logs

In this interface, you can check the running information type and corresponding running information of the selected device in a certain year, certain month and certain day. Proceed as follows to check the information:

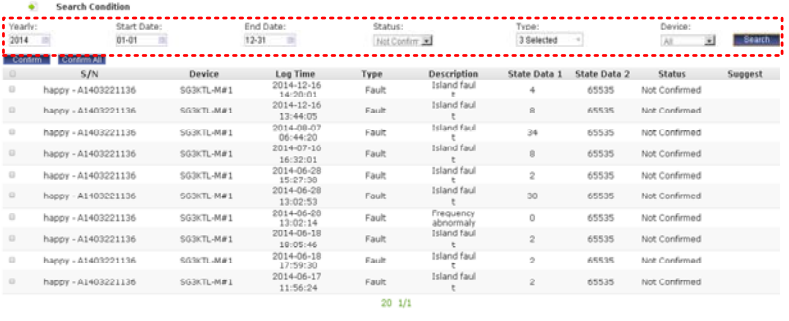
Step 3 Select the date you want to check. Take May, 15, 2015 for example: select "2015" for "Yearly", "05-12" for "Start Date" and "05-13" for "End Date".

Step 4 Select the "Status": Not Confirmed, Confirmed, and All.

Step 5 Select the information type: select all, info, warning, fault, and error.

Step 6 Select the device type you want to check.

Step 7 Click [Search].



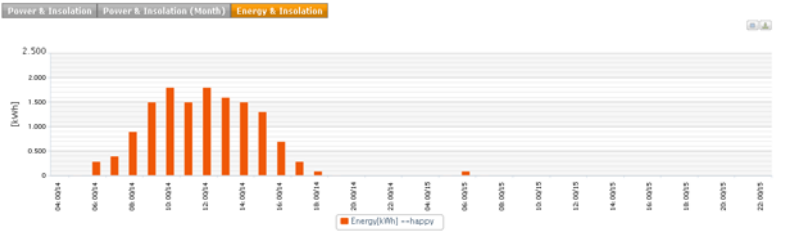
6.1.8 Chart

In this interface, you can check the Power & Insolation, Energy, Kilowatt hour and you can also add Custom chart.

- Power & Insolation

- This interface includes: [Power & Insolation], [Power & Insolation (Month)] and [Energy & Insolation]

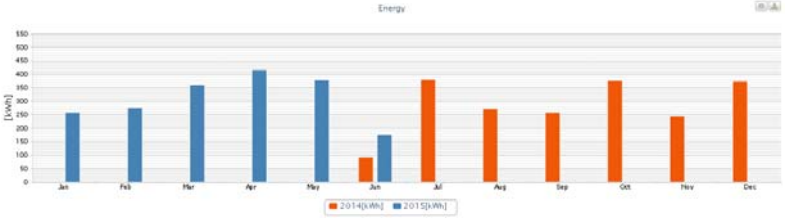
  Select the date you need, click among the three buttons to view the power and insolation of that day, power and insolation of that month and the chart of energy generated and insolation in different time.



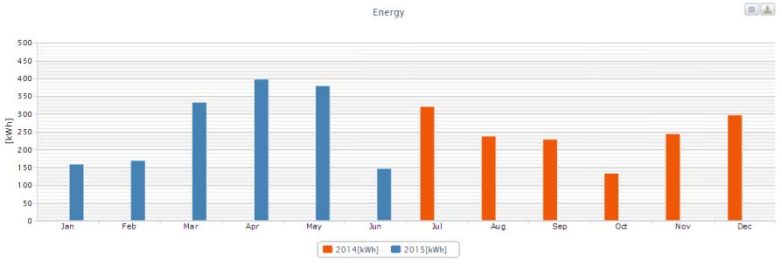
- Energy

You can check the energy generation information of each year in this interface.

– If the plant is operating for less than one year, this interface will show the energy generated in each month of that year as shown below:



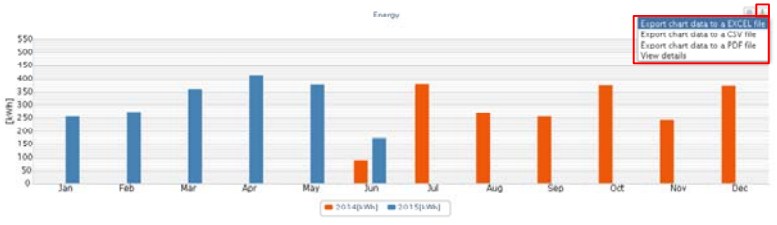
– If the plant has been operating for more than one year, this interface will display the energy generated of each month in different year as shown below:



User can also click the [ ] and [ ] button to view the information in full screen and download the selected information.

The download files are in excel, csv or pdf format.

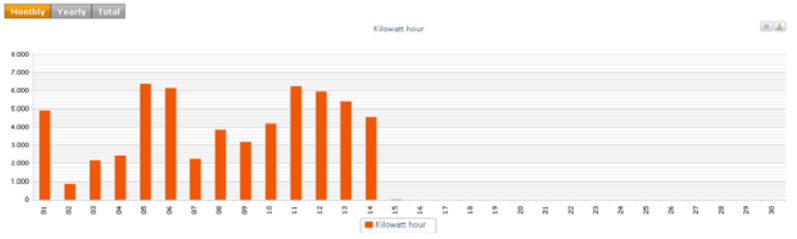
For more information, click "View details".



- Kilowatt hour

In this interface, you can check the following information after selecting the year and month:

- Click the [Monthly] button to view the monthly energy generation hours.
- Select a certain year and click [Yearly] button to check the energy generation hours of that year.
- Select [Total] to check the total energy generation hours.

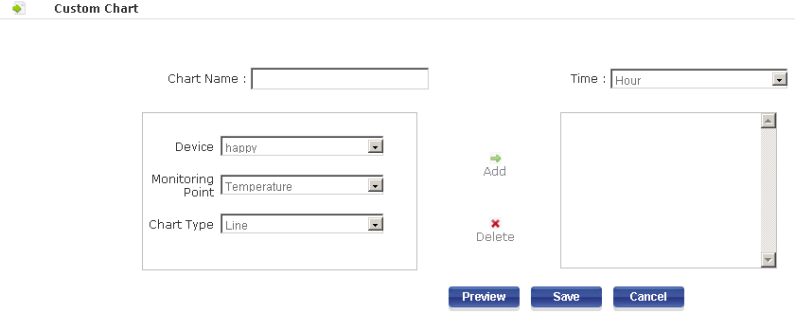


- Custom chart

In this interface, user can add more plant information according to real need. Proceed as follows:

Step 1 Click [Add] button in the following interface.

Step 2 The following interface will appear. Click [Add] after entering all information. If there is no problem, click [Save]. If there is wrong information after adding, click [Delete] to delete the wrong information and then reenter the information.



6.1.9 Reports

In [Report] interface, you can view or configure the reports.

- Reports view

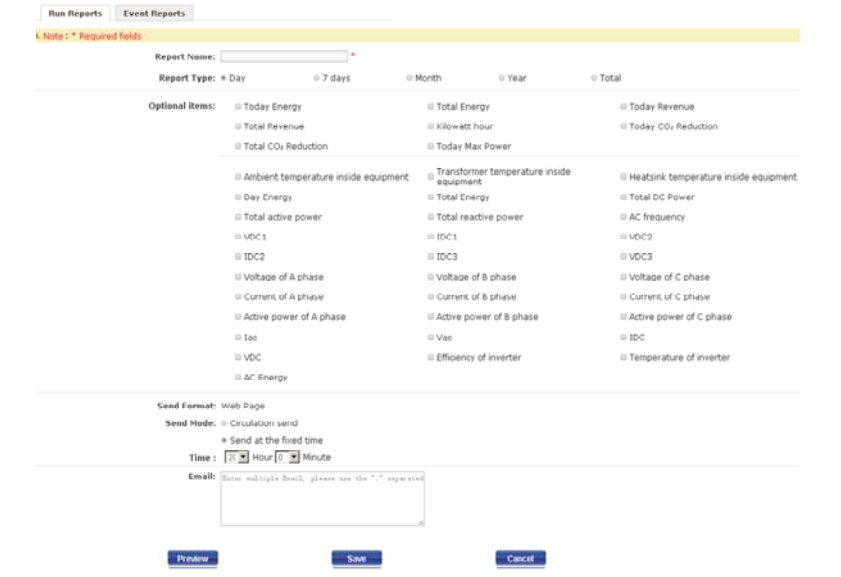
You can view the reports information and perform the following operations in the [Reports View] interface:

- Click [Add] to create new reports.
- Click [View] to view the detailed reports information.
- Click [Edit] to edit related reports information.
- Click [Delete] to delete a certain report. After deleting, that report will not appear.
- Click [Download] to download the reports to local place.

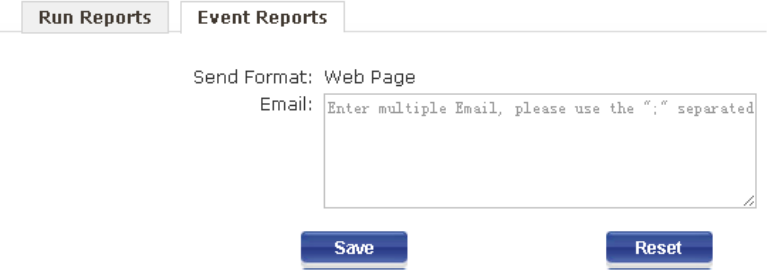
- Reports Configuration

In this interface, you can configure the run reports and event reports.

The run reports configuration interface is shown below. After entering all information as required, click [Preview] to check if there is something wrong. Click [Save] if all is correct to finish the run reports configuration.



The event reports configuration interface is shown below. After entering all related information, click [Save] to finish the event reports configuration.



6.1.10 Configuration

This interface includes the following sub-interfaces:

Sub-interface	Operations
User Information	Change user basic information, refer to Fig. 6-1.
Change Password	Change the user password, refer to Fig. 6-2.

Sub-interface	Operations
Page Configuration	To set the maximum number of power plant in Navigation bar and the maximum number of power plant in Overview page. Refer toFig. 6-3
Plant Users	To assign certain power station operation rights to other users. Refer to Fig. 6-4,Fig. 6-5
Template Settings	To change the SolarInfo Bank name and interface or Select different template from the system to change the skin. Refer toFig. 6-6

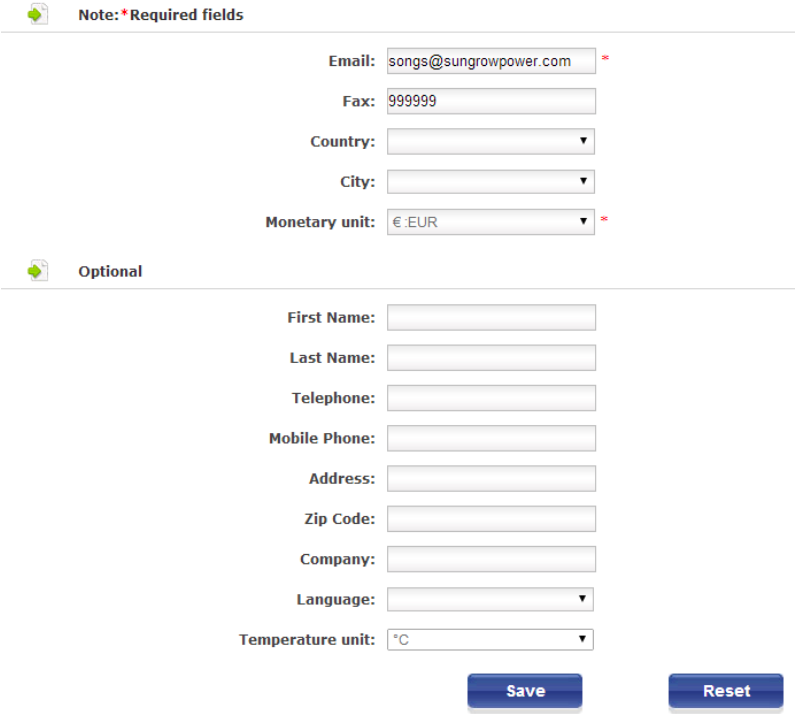


Fig. 6-1 Change user information interface

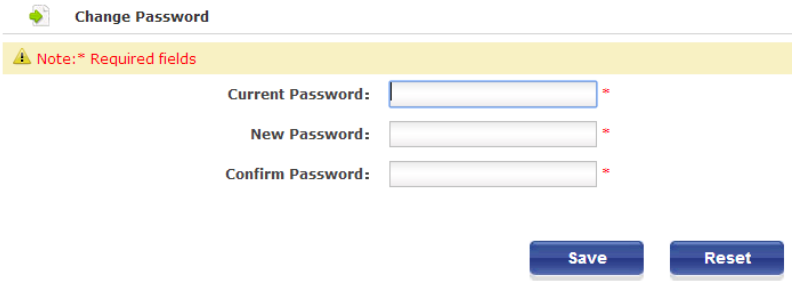


Fig. 6-2 Change user password interface

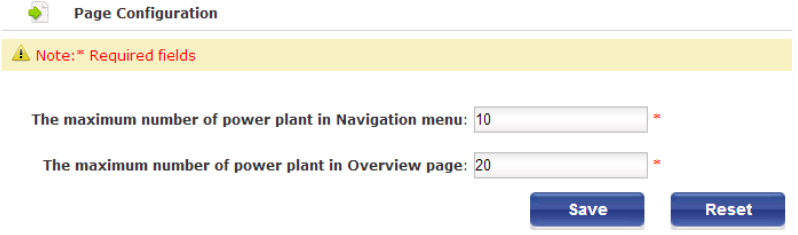

Page Configuration
Note:* Required fields
The maximum number of power plant in Navigation menu: 10
The maximum number of power plant in Overview page: 20
Save
Reset

Fig. 6-3 Page configuration interface

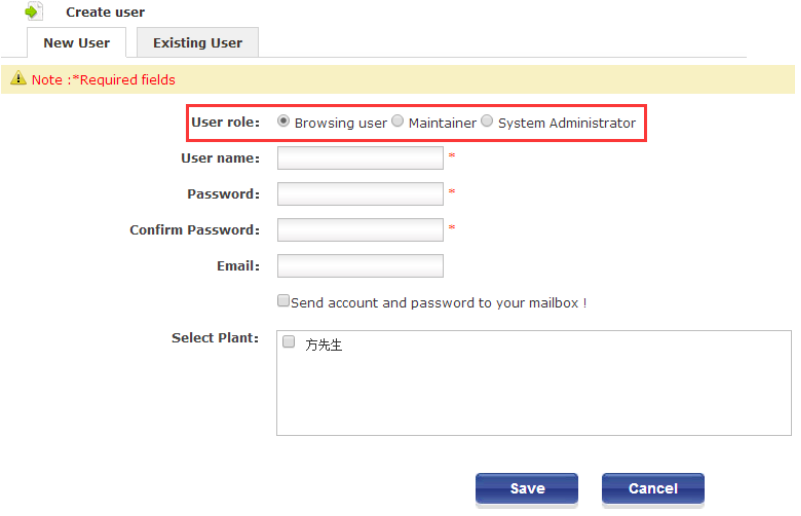


Fig. 6-4 Plant user (new user) interface

User can select the user role in the Plant User interface: Browsing user, Maintainer, and System administrator. The rights of each role are shown below:

- Browsing user: view plant data;
- Maintainer: can operate the plant; specific rights are assigned by system manager
- System administrator: perform all operations allowable within the plant

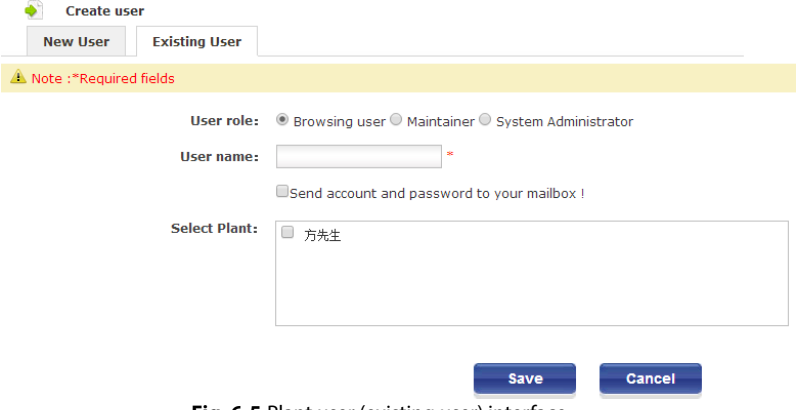


Fig. 6-5 Plant user (existing user) interface

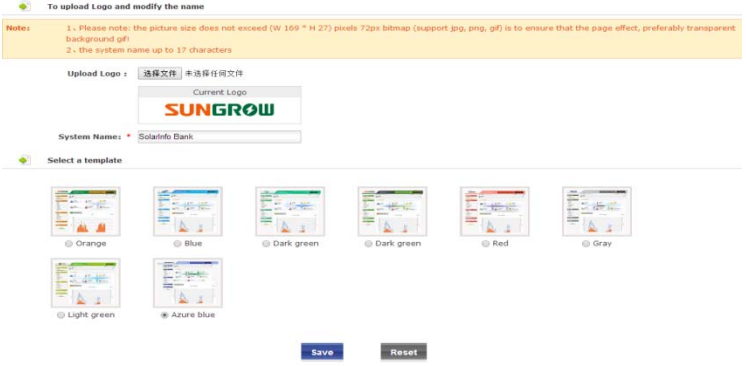


Fig. 6-6 Set template interface

6.2 All Plants Interface

Select [Plant List] and [All Plants], and the following main interface of all plants is shown below:

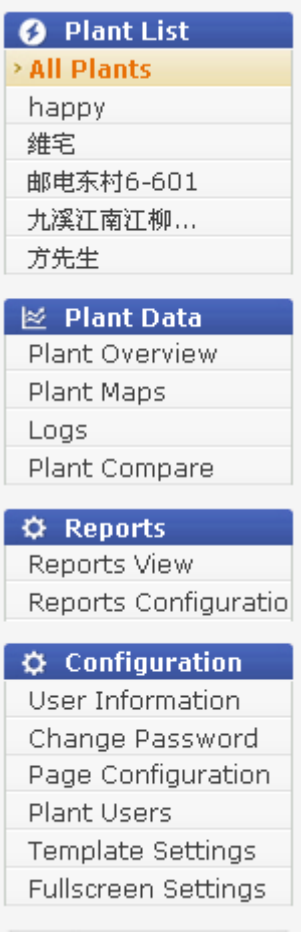
Fig. 6-7 All plants interface

Tab. 6-2 Description of the main interface

No.	Description
A	Title bar, including SolarInfo Bank name, Home, User Manual, Contact and language switch (supporting Chinese, Japanese, French, Italian and German)
B	Present user and logout`
C	Navigation bar: Plant List, Plant Data, Reports and Configuration
D	Information of all plants; can add, edit, or delete related information; detailed rights are assigned by the system manager
E	Full screen check tool; view in full screen by clicking this button

6.2.2 Introduction to the Navigation Bar

The navigation bar when you select all plants is on the left area of the main interface as shown below:



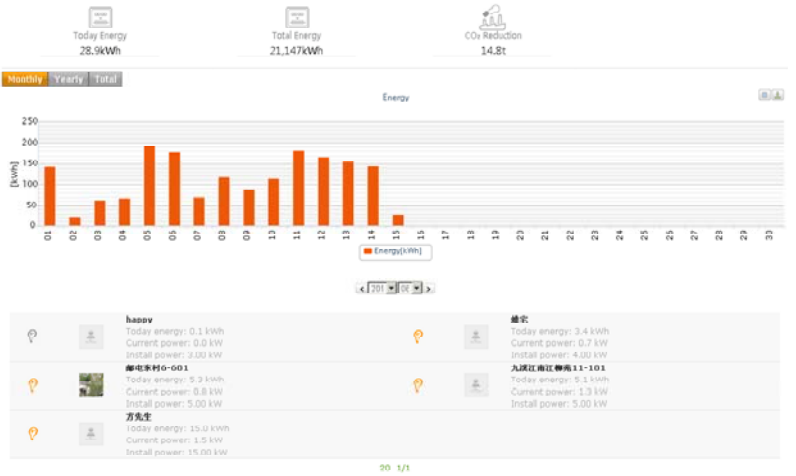
The interfaces of items in the navigation bar are shown in the following table:

Navigation bar	Sub-interface	Operations
Plant List	All plants	View the main interface information
	Single plant (for example "happy" in the above picture)	---
Plant Data	Plant Overview	Refers to "6.1.7 Plant Data"chapter
	Plant Maps	
	logs	

Navigation bar	Sub-interface	Operations
	Plant compare	
Reports	Reports View	Refers to “6.2.6 6.2.8 chapter
	Reports Configuration	
Configuration	User Information	Refers to “6.1.10 Configuration” chapter
	Change Password	
	Page Configuration	
	Plant Users	
	Template Settings	
	Fullscreen Settings	

6.2.3 Plant Overview

The [Plant overview] interface of all plants is shown below:



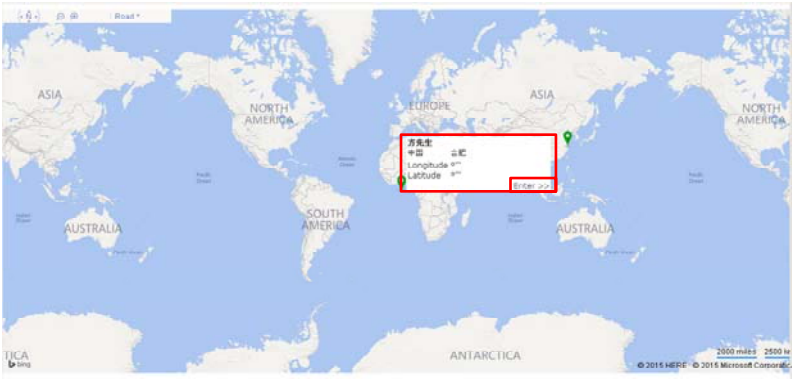
- Basic running information: this area displays Today Energy, Total Energy and CO_2 Reduction information which are the sum of the data of all plants.
- Chart information area: the monthly energy, yearly energy and total energy are the sum of the data of all plants.
- Basic information of each plant: display the basic information of each plant.

6.2.4 Plant Maps

In this interface, the location information of all plants will be marked one by one as shown below:

Click the icon of each plant to view the detailed longitude and latitude information of the plant.

Click a certain plant and then click Enter to view the basic runninginformation of that plant.



6.2.5 Logs

In all plants interface, you can check the logs information as shown below:

Operation steps:

Step 1 Select the year, start date and end date you want to check by the drop-down box.

Step 2 Select the status you want to check: Confirmed, not confirmed and all.

User can also click Confirm/Confirm All button in this interface to set the status of a certain piece of information or all information to "Confirmed".

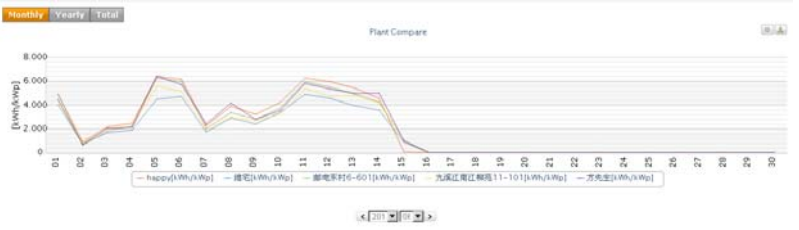
Step 3 Select the plant type: All plants or a specific plant (listed by the specific plant name).

Step 4 Select the information type you want to check: info, warning, fault, and error.

Step 5 Then click Search button to check the related information.

6.2.6 Plant Compare

Click Plant Compare from the All Plant interface to compare the energy generationinformation of several plants.



Click [Monthly], [Yearly], and [Total] button, the meaning of each curve is shown below:

[Monthly] energy compare= monthly energy generation of a plant (kWh)/designed power ((kWp)

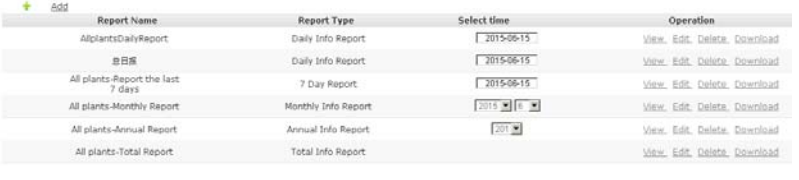
[Yearly]energy compare= yearly energy generation of a plant (kWh)/designed power ((kWp)

[Total]energy compare= total energy generation of a plant (kWh)/designed power ((kWp)

The default display is the present month and year energygeneration compare curve.
User can also click the date on the bottom of the chart to select the compare time period.

6.2.7 Reports View

In this interface, you can view, edit, delete and download the plant daily report, monthly report and total report. You can also create new reports.

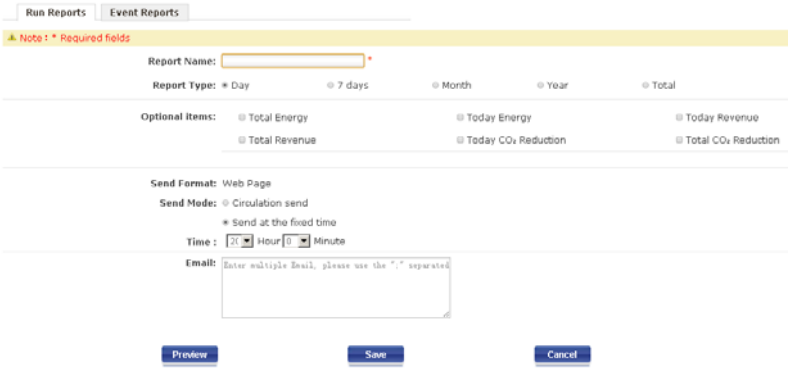


6.2.8 Reports Configuration

In this interface, you can configure the run reports and event reports.

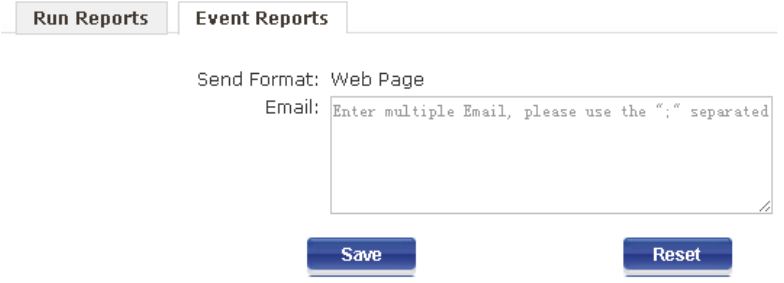
- Run reports configuration

In this interface, you can configure new reports as shown below:


Run Reports
Event Reports
Note : * Required fields
Report Name:
Report Type: Day 7 days Month Year Total
Optional items: Total Energy Today Energy Today Revenue
Total Revenue Today CO2 Reduction Total CO2 Reduction
Send Format: Web Page
Send Mode: Circulation send
Send at the fixed time
Time : Hour Minute
Email:
Enter multiple Email, please use the ";" separated
Preview
Save
Cancel

- Event reports configuration

In this interface, you can configure new reports as shown below:



7 Contact

Should you have any questions about this software, please contact us.

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The contents of the manual will be periodically updated or revised due to the product development. It is probably that there are changes of manual in subsequent inverter edition.

The latest manual can be acquired via visiting the web page www.sungrowpower.com.

SUNGROW

Green and Effective

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Specifications are subject to changes without advance notice.